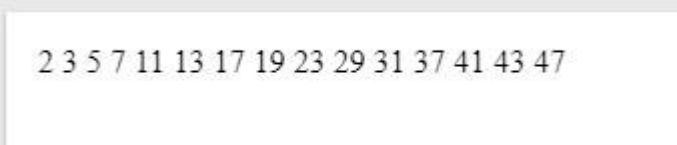


1. Write a PHP script to print prime numbers between 1-50

```
<?php
$count = 0;
$num = 2;
while ($count < 15 )
{
    $div_count=0;
    for ( $i=1; $i<=$num; $i++)
    {
        if (($num%$i)==0)
        {
            $div_count++;
        }
    }
    if ($div_count<3)
    {
        echo $num." " , " ";
        $count=$count+1;
    }
    $num=$num+1;
}
?>
```

OUTPUT

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47**2.a)PHP Script to find the length of a string.**

```
<?php
$str1 = 'Hello world!';
echo strlen($str1);
echo "<br>";

$str2 = ' Hello    world! ';
echo strlen($str2);
?>
```

12
17**OUTPUT:**

2.b)PHP Script to Count no of words in a string.

```
<?php
$str = " I am coder ";
$len = str_word_count($str);
echo $len;
?>
```

//output:3

2.c)PHP Script to Reverse a string

```
<?php
function Reverse($str){
    return strrev($str);
}

$str = "reverse";
echo Reverse($str)
?>
```

//output:esrever

2.d)PHP Script to Search for a specific string.

```
<?php
$word = "fox";
$string = "The quick brown fox jumps over the lazy dog";

if(strpos($string, $word) !== false){
    echo "Word Found!";
} else{
    echo "Word Not Found!";
}
?>
```

//output:Word Found!

3) Write a PHP script to merge two arrays and sort them as numbers, in descending order.

```
<?php
    $a1=array(1,3,15,7,5);
    $a2=array(4,3,20,1,6);
    $num=array_merge($a1,$a2);
    array_multisort($num,SORT_DESC,SORT_NUMERIC);
    print_r($num);
?>
```

```
Array ( [0] => 20 [1] => 15 [2] => 7 [3] => 6 [4] => 5 [5] => 4 [6] => 3 [7] => 3 [8] => 1 [9] => 1 )
```

4) Write a PHP script that reads data from one file and write into another file.

```
<!DOCTYPE html>
<html>
<body>
<?php
$myfile = fopen("abc.html", "r") or die("Unable to open file!");
echo fread($myfile,filesize("abc.html"));
fclose($myfile);
?>
</body>
</html>

<html>
<body>
<text align="center"> AJAX = Asynchronous JavaScript and XML<br>
CSS = Cascading Style Sheets<br>
HTML = Hyper Text Markup Language<br>
PHP = PHP Hypertext Preprocessor<br>
SQL = Structured Query Language<br>
SVG = Scalable Vector Graphics<br>
XML = EXtensible Markup Language
</body>
</html>
```

```
AJAX = Asynchronous JavaScript and XML
CSS = Cascading Style Sheets
HTML = Hyper Text Markup Language
PHP = PHP Hypertext Preprocessor
SQL = Structured Query Language
SVG = Scalable Vector Graphics
XML = EXtensible Markup Language
```

5) Develop static pages for your project

Login.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title>Login</title>
    <link rel="stylesheet" href="slogin.css">
    <body>
      <div class="login-box">
        <h1>Login</h1>
        <div class="textbox">
          <i class="fa fa-user" aria-hidden="true"></i>
          <input type="text" placeholder="Username" name="" value="">
        </div>
        <div class="textbox">
          <i class="fa fa-lock" aria-hidden="true"></i>
          <input type="password" placeholder="Password" name="" value="">
        </div>
        <input class="btn" type="button" name="" value="Sign in">
      </div>
    </body>
  </head>
</html>
```

Login.css

```
@import "https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-awesome.min.css";
body{
  margin : 0;
  padding : 0;
  font-family : sans-serif;
  background : url(bg1.jpeg) no-repeat;
  background-size :cover;
}
.login-box
{
  width: 280px;
  position : absolute;
  top: 50%;
  left: 50%;
  transform : translate(-50%,-50%);
  color:white;
}
.login-box::before
{
  content : ";
```

```
position : absolute;
width : 125%;
height : 125%;
background: rgba(0, 0, 0, 0.74);
border-top-right-radius : 20px;
border-top-left-radius: 20px;
border-bottom-left-radius: 20px;
border-bottom-right-radius:20px;
z-index: -1;
}

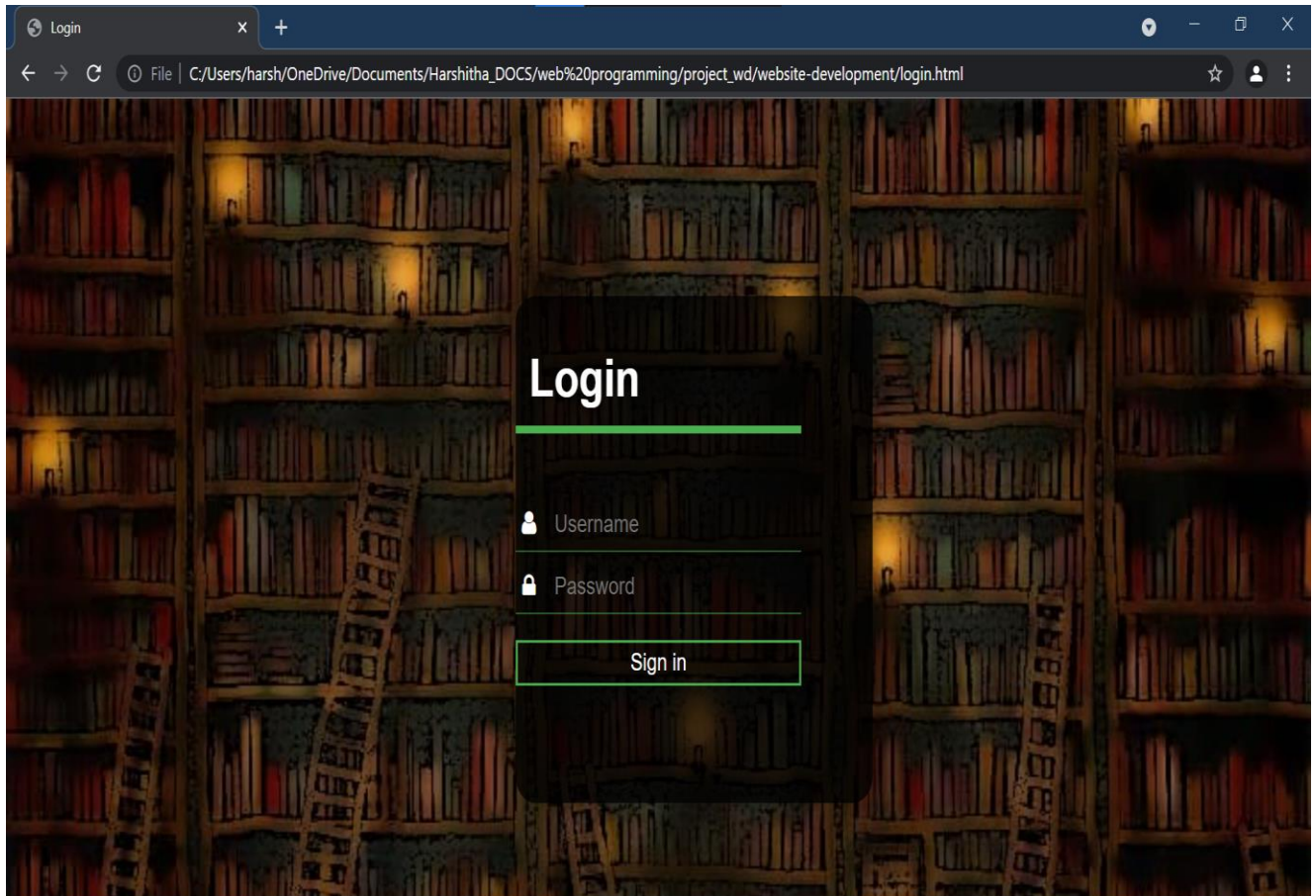
.login-box h1{
float: center;
font-size: 40px;
border-bottom: 6px solid #4caf50;
margin-bottom: 50px;
padding: 13px;
}
.textbox
{

width: 100%;
overflow: hidden;
font-size: 20px;
padding: 8px 0;
margin: 8px 0;
border-bottom: 1px solid #4caf50;
}
.textbox i{
width : 26px;
float: left;
text-align: center;
}
.textbox input{
border: none;
outline : none;
background: none;
color:whiyne;
font-size: 18px;
width: 80%;
float: left;
margin: 0 10px;
color:antiquewhite;
}
.btn
{
width: 100%;
background: none;
border: 2px solid #4caf50;
color: white;
```

```
padding: 5px;  
font-size: 18px;  
cursor: pointer;  
margin: 12px 0;
```

```
}
```

OUTPUT :





Genre.html

```

<html>
<head>
<style>
    body {
        background-image: url("https://thumbs.dreamstime.com/b/fence-painted-turquoise-color-background-texture-fence-board-painted-turquoise-background-color-139085922.jpg");
    }
</style>
<title>
Coverpage
</title>
<style>
.column {
    float: left;
    width: 32.33%;
    padding: 5px;
}

.row::after {
    content: "";
    clear: both;
    display: table;
}
</style>
</head>
<body>
<h1 style="color:brown;"><center>Categories</center></h1>

</br>
</br>

```

```
</br>

<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Comics</h1>

  </div>

<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Sci-fi</h1>

  </div>

<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Art</h1>

  </div>
<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Entertainment</h1>

  </div>
<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Food</h1>

  </div>
<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Fashion</h1>

  </div>
<div class="row">
  <div class="column">
    
    <h1 style="color:indigo;">Travel</h1>

  </div>
<div class="row">
  <div class="column">
```



```

```

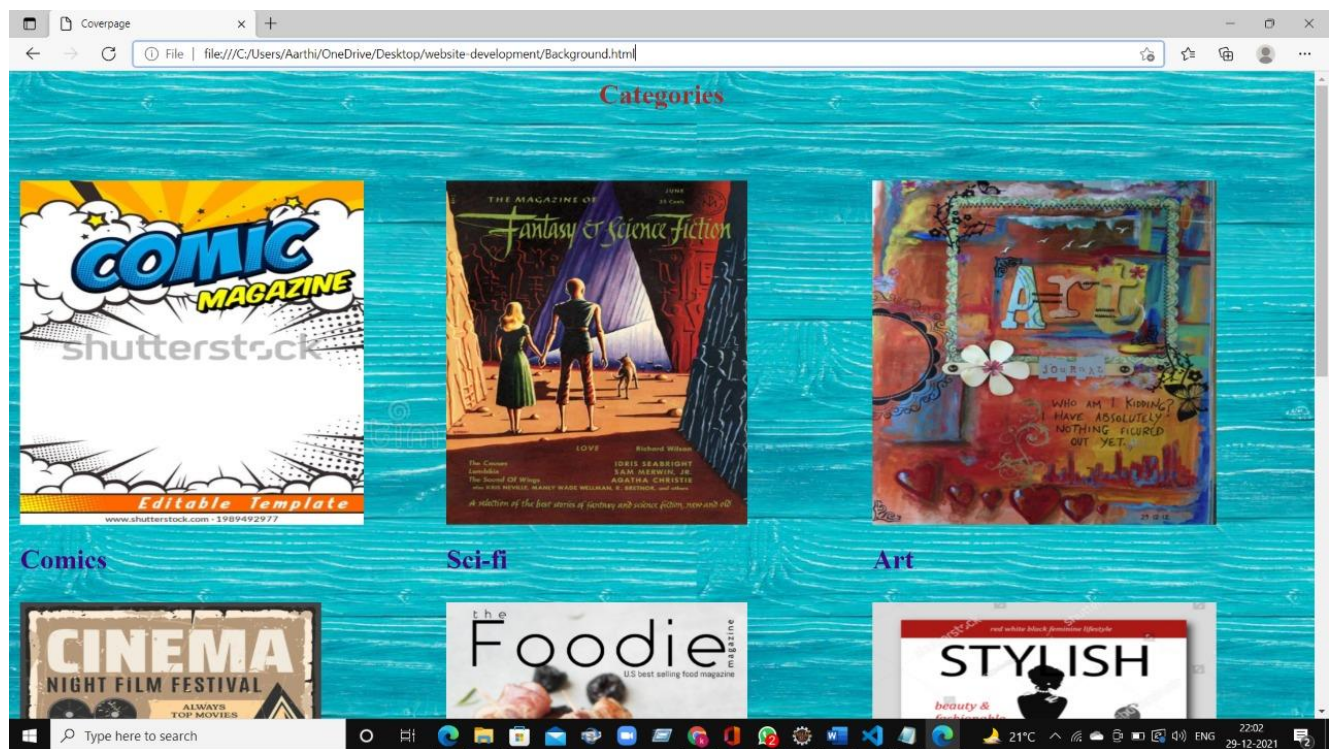
```
<h1 style="color:indigo;">Sports</h1>
```

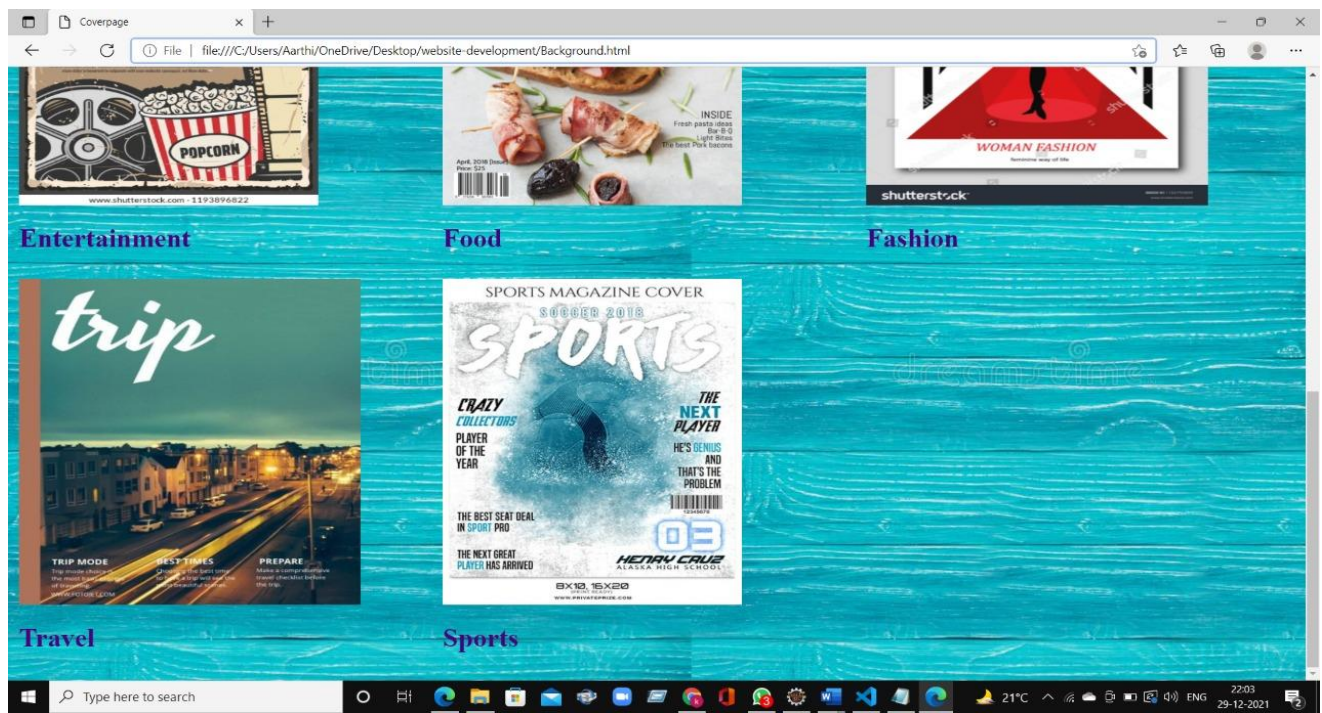
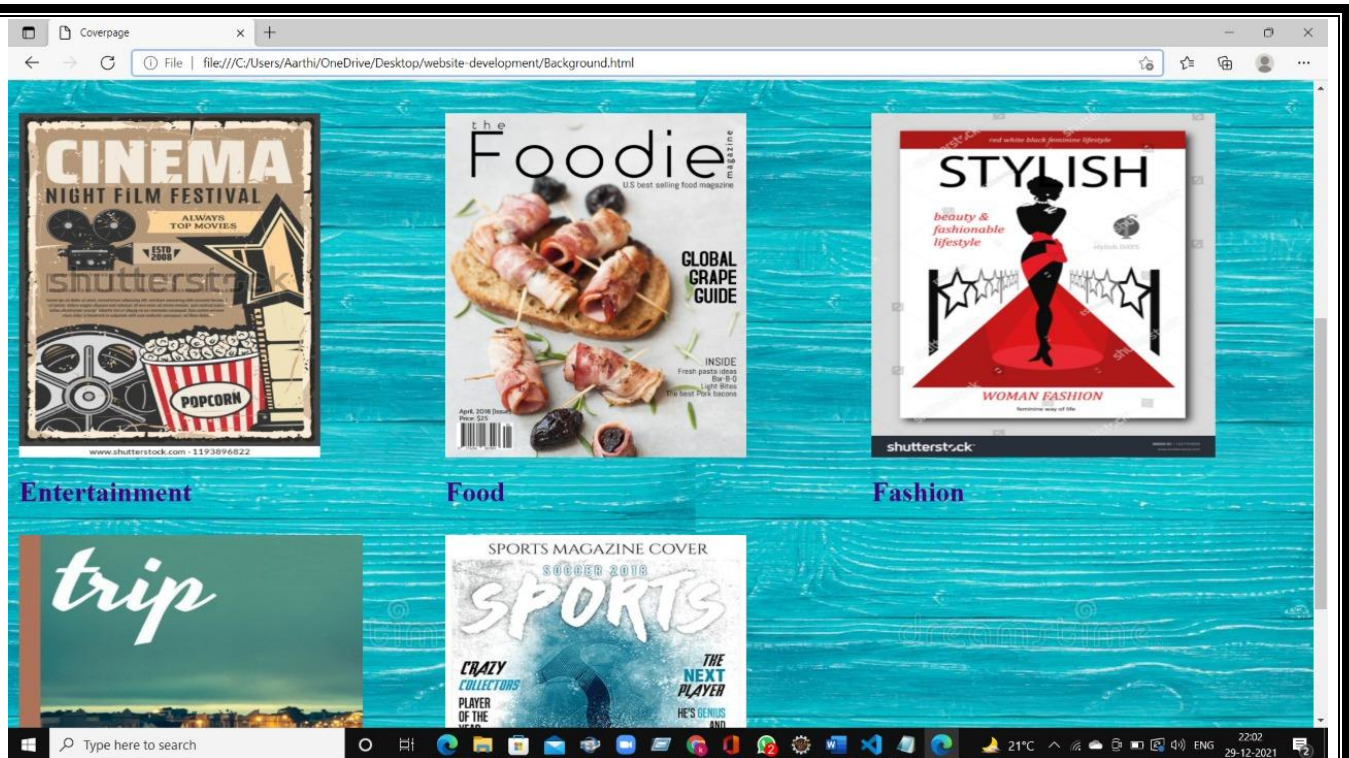
```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```





Navigation.html

```

<head>
  <meta charset="utf-8" />
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.3.0/css/font-awesome.min.css">
  <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>

  <div class="container bar">
    <label class="floatLeft" for="navBtn"><span></span></label>
    <span class="floatRight paddingRight2rem">
      </span>
    </div>
  <div class="container">
    <input type="checkbox" class="navBtn" id="navBtn" />
    <nav>
      <ul>
        <li>
          <a href="D:\wp\comic image.jpeg"><i class="fa fa-heart"></i>Comic</a>
        </li>
        <li>
          <a href="D:\wp\sci-fi image.jpeg"><i class="fa fa-medkit"></i>Fiction</a>
        </li>
        <li>
          <a href="D:\wp\art image.jpeg"><i class="fa fa-heartbeat"></i>Art</a>
        </li>
        <li>
          <a href="D:\wp\entertainment image.jpeg"><i class="fa fa-ambulance"></i>Entertainment</a>
        </li>
        <li>
          <a href="D:\wp\food image.jpeg"><i class="fa fa-ambulance"></i>Food</a>
        </li>
        <li>
          <a href="D:\wp\fashion image.jpeg"><i class="fa fa-ambulance"></i>Fashion</a>
        </li>
        <li>
          <a href="D:\wp\travel image.jpeg"><i class="fa fa-ambulance"></i>Travel</a>
        </li>
        <li>
          <a href="D:\wp\sports image.jpeg"><i class="fa fa-ambulance"></i>Sports</a>
        </li>
      </ul>
    </nav>
  </div>

</body>

```


Navigation.css

```
/* =====
Google Fonts
===== */
@import url(https://fonts.googleapis.com/css?family=PT+Sans:400,400italic,700,700italic);
/* =====
clearfix
===== */
.cf:before,
.cf:after {
  content: " ";
  /* 1 */
  display: table;
  /* 2 */
}

.cf:after {
  clear: both;
}

.cf {
  *zoom: 1;
}

/* =====
html, body and stuff
===== */
*, *:before, *:after {
  -moz-box-sizing: border-box;
  -webkit-box-sizing: border-box;
  box-sizing: border-box;
}

body {
  font-size: 100%;
  font-family: 'PT Sans', sans-serif;
  background-color: #f3f3f3;
}

/* =====
text
===== */
.left {
  text-align: left;
}

.center {
  text-align: center;
}

.right {
  text-align: right;
}

.justify {
  text-align: justify;
}

.uppercase {
```

```
text-transform: uppercase;
}

/* =====
padding / margin
===== */
.padding1rem {
padding: 1rem;
}

.paddingRight2rem {
padding: 0 2rem 0 0;
}

/* =====
links
===== */
a {
color: white;
}

/* =====
headlines
===== */
/* =====
awesome Fonts
===== */
i {
color: #d1d4d9;
margin: 0 1rem 0 0;
}

/* =====
layout
===== */
.container {
max-width: 100%;
margin: 0 auto;
overflow: hidden;
}

.floatLeft {
float: left;
}

.floatRight {
float: right;
}

.posAbs {
position: absolute;
}

.third {
width: 33.3333%;
}

.half {
width: 50%;
}
```

```
.twoThird {
  width: 66.6666%;
}

.quarter {
  width: 25%;
}

label {
  cursor: pointer;
  border-right: 1px solid #d1d4d9;
  display: block;
  height: 4rem;
  width: 4rem;
  position: relative;
}

label span {
  border-radius: 15%;
  height: 3px;
  width: 32px;
  background-color: white;
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translateY(-50%) translateX(-50%);
  transition: all 0.3s ease-out;
}

label span:before {
  border-radius: 15%;
  position: absolute;
  content: "";
  height: 100%;
  width: 100%;
  background-color: white;
  top: 400%;
  transition: all 0.3s ease-out;
}

label span:after {
  border-radius: 15%;
  position: absolute;
  content: "";
  height: 100%;
  width: 100%;
  background-color: white;
  top: -400%;
  transition: all 0.3s ease-out;
}

label:hover span {
  height: 0;
  transition: all 0.3s ease-out;
}

label:hover span:before {
  height: 3px;
  transform: rotate(-45deg);
  transition: all 0.3s ease-out;
}

label:hover span:after {
  height: 3px;
```

```
transform: rotate(45deg);
transition: all 0.3s ease-out;
}

.bar {
  color: white;
  background-color: #4a4e54;
  line-height: 4rem;
  border: 1px solid grey;
}

nav {
  border-left: 1px solid #d1d4d9;
  border-right: 1px solid #d1d4d9;
  border-bottom: 1px solid #d1d4d9;
  max-width: 300px;
  background-color: white;
  transform: translateX(-100%) scale(1, 0.1);
  transform-origin: top left;
  transition: all 0.3s ease-out;
}

nav ul {
  margin: 0;
  padding: 0;
  list-style: none;
}

nav ul li {
  border-top: 1px solid #efefef;
  opacity: 0;
  transform: translateX(-100%);
  transition: all 0.6s ease-out;
}

nav ul li a {
  transition: all 0.3s ease-out;
  line-height: 1rem;
  text-decoration: none;
  color: #8a8d92;
  display: block;
  padding: 1rem;
}

nav ul li:first-child {
  border-top: none;
}

nav ul li:hover a {
  color: white;
  background-color: #6d747e;
  transition: all 0.3s ease-out;
}

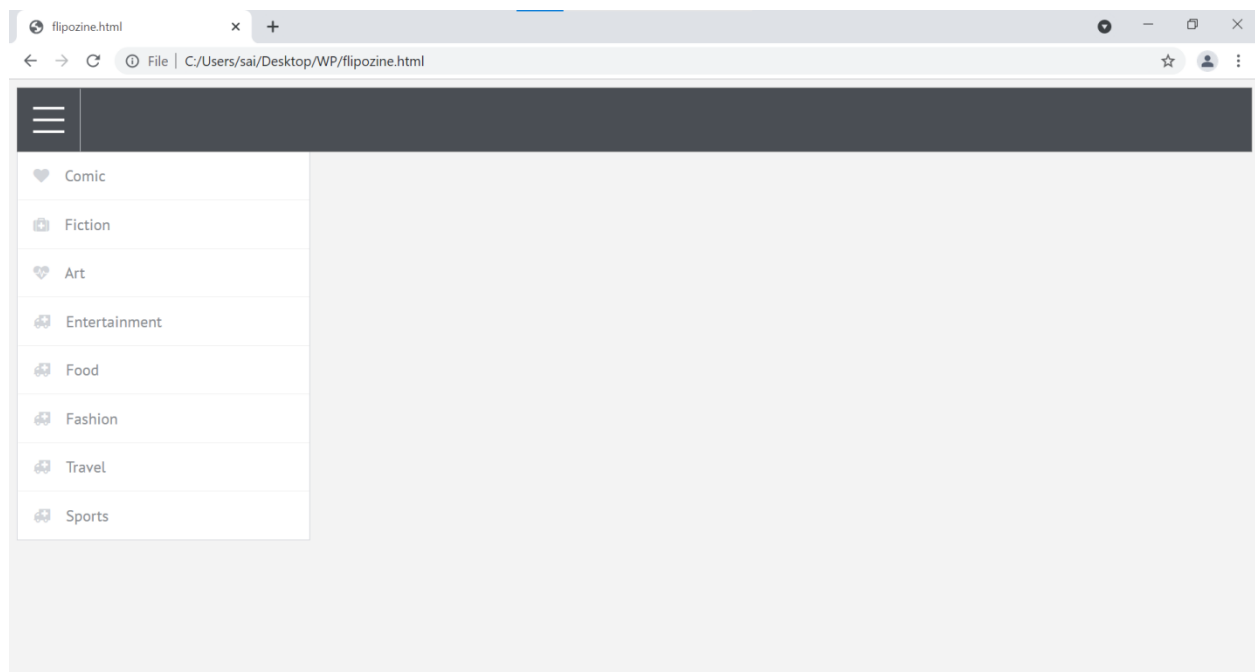
nav ul li:hover a i {
  color: white;
}

.navBtn:checked ~ nav {
  transform: translateX(0);
  transition: all 0.3s ease-out;
}

.navBtn:checked ~ nav ul li {
  opacity: 1;
  transform: translateX(0);
}
```

```
transition: all 0.6s ease-out;
}

.navBtn {
display: none;
}
```



6. Create and save an XML document on the server, which contains 10 users information. Write a program, which takes User Id as an input and returns the user details by taking the user information from the XML document.

```
<?xml version="1.0"?>
```

```
<userlist>
```

```
<user>
```

```
<userid>usr01</userid>
```

```
<username>Harshitha</username>
```

```
<address>SR Nagar</address>
```

```
<phone>9908085569</phone>
```

```
<email>19wh1a1253@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr02</userid>
```

```
<username>Sriya</username>
```

```
<address>Satyam heights</address>
```

```
<phone>9440372261</phone>
```

```
<email>19wh1a1242@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr03</userid>
```

```
<username>Poojitha</username>
```

```
<address>Kukatpally</address>
```

```
<phone>9866666666</phone>
```

```
<email>19wh1a1230@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr04</userid>
```

```
<username>Bindhu</username>
```

```
<address>suryapet</address>
```

```
<phone>9835994445</phone>
```

```
<email>19wh1a1214@bvrithyderabad.edu.in</email>
```

```
</user>
```

```
<user>
```

```
<userid>usr05</userid>
```

```
<username>Pratyusha</username>
```

```
<address>Himayat Nagar</address>
```

```
<phone>968877555</phone>
<email>19wh1a12a0@bvrithyderabad.edu.in</email>
</user>

<user>
<userid>usr06</userid>
<username>Harshitha</username>
<address>ESI</address>
<phone>968875554</phone>
<email>19wh1a1253@bvrithyderabad.edu.in</email>
</user>

<user>
<userid>usr07</userid>
<username>Aarthi</username>
<address>Shivam Road</address>
<phone>968888554</phone>
<email>19wh1a1258@bvrithyderabad.edu.in</email>
</user>

<user>
<userid>usr08</userid>
<username>Shobita</username>
<address>ESI</address>
<phone>968878554</phone>
<email>20wh5a1205@bvrithyderabad.edu.in</email>
</user>

<user>
<userid>usr09</userid>
<username>Laxmi</username>
<address>Bachupally</address>
<phone>968899554</phone>
<email>20wh5a1202@bvrithyderabad.edu.in</email>
</user>

<user>
<userid>usr10</userid>
<username>Nagalakshmi</username>
<address>Shahpur</address>
<phone>9088008554</phone>
<email>20wh5a1206@bvrithyderabad.edu.in</email>
</user>

</userlist>
```



```
}  
</script>  
</head>  
<body>  
<center>  
<h1><b>User Information</b></h1>  
<form name="frm">  
User ID : <input type="text" name="uname"><br>  
<input type="button" name="btn" value="Submit" onclick="fncDisplayInfo()">  
</form>  
</center>  
</body>  
</html>
```

User Information

User ID :

8) Install TOMCAT web server. Implement servlets for registration page of your project.

Hello.java

```

import jakarta.servlet.http.*;
import jakarta.servlet.*;
import java.io.*;
import java.sql.*;
public class Hello extends HttpServlet{

    public void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException{
        response.setContentType("text/html");
        PrintWriter out=response.getWriter();
        String Name=request.getParameter("userName");
        String password=request.getParameter("userPass");
        String email=request.getParameter("userEmail");
        String mobile=request.getParameter("userMobile");
        String dob=request.getParameter("userDOB");
        String gender=request.getParameter("gender");
        String country=request.getParameter("userCountry");
        out.print("Hello "+Name);
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wp","root","12345");
            PreparedStatement ps=con.prepareStatement("insert into wp.registration
values(?,?,?,?,?,?,?)");
            ps.setString(1,Name);
            ps.setString(2,password);
            ps.setString(3,email);
            ps.setString(4,mobile);
            ps.setString(5,dob);
            ps.setString(6,gender);
            ps.setString(7,country);
            int r=ps.executeUpdate();
            if(r==0)
                out.println("insertion failure");
            else
                out.println(" your registration is successful");
            con.close();
            ps.close();
        }
        catch(Exception e)
        {

        }

        out.close();
    }
}

```

Web.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="https://jakarta.ee/xml/ns/jakartaee"
xmlns:web="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
https://jakarta.ee/xml/ns/jakartaee/web-app_5_0.xsd" id="WebApp_ID" version="5.0">
    <display-name>WP_SERVLETS</display-name>
    <welcome-file-list>

```

```

    <welcome-file>register.html</welcome-file>
</welcome-file-list>
<servlet>
    <description></description>
    <display-name>Hello</display-name>
    <servlet-name>Hello</servlet-name>
    <servlet-class>Hello</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>Hello</servlet-name>
    <url-pattern>/Hello</url-pattern>
</servlet-mapping>
</web-app>

```

Register.html

```

<html>
  <body>
    <form action="./Hello" method="get">
      <fieldset style="width:20%; background-color:#ccffeb">
        <h2 align="center">Registration form</h2><hr>
        <table>
          <tr>
            <td>Name</td>
            <td><input type="text" name="userName" required /></td>
          </tr>
          <tr>
            <td>Password</td>
            <td><input type="password" name="userPass" required /></td>
          </tr>
          <tr>
            <td>Email Id</td>
            <td><input type="text" name="userEmail" required /></td>
          </tr>
          <tr>
            <td>Mobile</td>
            <td><input type="text" name="userMobile" required/></td>
          </tr>
          <tr>
            <td>Date of Birth</td>
            <td><input type="date" name="userDOB" required/></td>
          </tr>
          <tr>
            <td>Gender</td>
            <td><input type="radio" name="gender" value="male" checked> Male
              <input type="radio" name="gender" value="female"> Female </td></tr>
          <tr>
            <td>Country</td>
            <td><select name="userCountry" style="width:130px">
              <option>Select a country</option>
              <option>India</option>
              <option>America</option>
              <option>England</option>
              <option>other</option></select>
            </td>
          </tr>
          <tr>
            <td><input type="reset" value="Reset"/></td>
            <td><input type="submit" value="Register"/></td>
          </tr>
        </table>
      </fieldset>
    </form>
  </body>
</html>

```

```

</table>
</fieldset>
</form>
</body>
</html>

```

The screenshot displays a web browser at localhost:8080/WP_SERVLETS/ showing a "Registration form". The form includes fields for Name, Password, Email Id, Mobile, Date of Birth (mm/dd/yyyy), Gender (Male/Female), and Country (a dropdown menu). There are "Reset" and "Register" buttons.

Below the browser, a MySQL Workbench window shows the "registration" table schema. The table has columns: Name (VARCHAR(50)), Password (VARCHAR(50)), email (VARCHAR(50)), mobile (VARCHAR(10)), dob (VARCHAR(20)), gender (VARCHAR(10)), and country (VARCHAR(10)). The table is located in the wp database.

The SQL query editor shows the following query:

```

1 * SELECT * FROM wp.registration;

```

The result grid shows the following data:

| Name | password | email | mobile | dob | gender | country |
|------------------|---------------------------------|-------|-------------|------------|--------|---------|
| Harshitha 220322 | 19wh1a1253@bvrthyderabad.edu.in | | 89908085569 | 22-03-2002 | female | India |

9) Implement JSP FOR YOUR REGISTRATION PAGE

Register.jsp

```

<%@ page import="java.io.*" %>
<%@ page import="java.sql.*" %>

<%
String result="";
String username=request.getParameter("userName");
String password=request.getParameter("userPass");
String phonenumber=request.getParameter("userMobile");
String address=request.getParameter("userAddress");
String city=request.getParameter("userCity");
String state=request.getParameter("userState");
String country=request.getParameter("userCountry");
try

```



```

{
Class.forName("com.mysql.cj.jdbc.Driver");
Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wp","root","12345");
PreparedStatement ps=con.prepareStatement("insert into wp.details_jsp
values(?,?,?,?,?,?,?)");
ps.setString(1,username);
ps.setString(2,password);
ps.setString(3,phonenummer);
ps.setString(4,address);
ps.setString(5,city);
ps.setString(6,state);
ps.setString(7,country);
int r=ps.executeUpdate();
if(r==0)
out.println("failure");
else
result="Admin Registered Successfully";
con.close();}
catch (Exception e)
{
    System.out.println(e);
}
%>

<div style="text-align:center">
    <form action="Login.html">
        <h1><%=result%></h1><br>
        <input type="submit" value="Go To registration Page">
    </form><br><br>
</div>

Login.html
<html>
    <body>
        <form action="register.jsp" method="get">
            <fieldset style="width:20%; background-color:#ccffeb">
                <h2 align="center">Registration form</h2><hr>
                <table>
                    <tr>
                        <td>username</td>
                        <td><input type="text" name="userName" required /></td>
                    </tr>
                    <tr>
                        <td>password</td>
                        <td><input type="password" name="userPass" required /></td>
                    </tr>
                    <tr>
                        <td>phonenummer</td>
                        <td><input type="text" name="userMobile" required/></td>
                    </tr>
                    <tr>
                        <td>address</td>
                        <td><input type="text" name="userAddress" required/></td>
                    </tr>
                    <tr>
                        <td>city</td>
                        <td><input type="text" name="userCity" required/></td>

```

```
</tr>
<tr>
  <td>state</td>
  <td><input type="text" name="userState" required/></td>
</tr>
<td>country</td>
<td><select name="userCountry" style="width:130px">
  <option>Select a country</option>
  <option>India</option>
  <option>America</option>
  <option>England</option>
  <option>other</option></select>
</td>
</tr>
<tr>
  <td><input type="reset" value="Reset"/></td>
  <td><input type="submit" value="Register"/></td>
</tr>
</table>
</fieldset>
</form>
</body>
</html>
```

Registration form

| | |
|--|---|
| username | <input type="text"/> |
| password | <input type="password"/> |
| phonenumber | <input type="text"/> |
| address | <input type="text"/> |
| city | <input type="text"/> |
| state | <input type="text"/> |
| country | <input type="text" value="Select a country"/> |
| <input type="button" value="Reset"/> <input type="button" value="Register"/> | |

Admin Registered Successfully